

Title (en)

ADDITIVE FOR LUBRICATING OILS AND HYDROCARBON FUELS

Publication

EP 0172733 A3 19870506 (EN)

Application

EP 85305827 A 19850816

Priority

US 64321784 A 19840822

Abstract (en)

[origin: EP0172733A2] Additives useful as dispersants and/or detergents in lubricating oils, gasolines, marine crankcase oils and hydraulic oils are alkenyl or alkyl succinimides which have been modified by treatment with a polyamine-cyclic carbonate adduct. The additives are the reaction products obtainable by first (a) reacting a polyamine with a cyclic carbonate and thereafter (b) reacting the product of step (a) with an alkenyl or alkyl succinic anhydride.

IPC 1-7

C10L 1/22; **C10M 133/18**; **C10M 133/56**

IPC 8 full level

C10M 159/12 (2006.01); **C10L 1/232** (2006.01); **C10L 1/2383** (2006.01); **C10L 10/08** (2006.01); **C10M 133/18** (2006.01); **C10M 133/56** (2006.01); **C10N 30/04** (2006.01); **C10N 40/00** (2006.01); **C10N 40/25** (2006.01); **C10N 60/14** (2006.01)

CPC (source: EP US)

C10L 1/2383 (2013.01 - EP US); **C10M 133/18** (2013.01 - EP US); **C10M 133/56** (2013.01 - EP US); **C10M 2215/04** (2013.01 - EP US); **C10M 2215/042** (2013.01 - EP US); **C10M 2215/086** (2013.01 - EP US); **C10M 2215/26** (2013.01 - EP US); **C10M 2215/28** (2013.01 - EP US); **C10M 2217/046** (2013.01 - EP US); **C10M 2217/06** (2013.01 - EP US); **C10N 2040/25** (2013.01 - EP US); **C10N 2040/251** (2020.05 - EP US); **C10N 2040/255** (2020.05 - EP US); **C10N 2040/28** (2013.01 - EP US)

Citation (search report)

- [A] US 3652240 A 19720328 - DORN PETER, et al
- [A] EP 0090629 A2 19831005 - STANDARD OIL CO [US]
- [E] EP 0169715 A2 19860129 - CHEVRON RES [US]

Cited by

EP0863162A3; EP0169715A3; WO9420548A1

Designated contracting state (EPC)

BE DE FR GB SE

DOCDB simple family (publication)

EP 0172733 A2 19860226; **EP 0172733 A3 19870506**; **EP 0172733 B1 19910213**; BR 8503680 A 19860506; CA 1239422 A 19880719; DE 3581752 D1 19910321; JP H0254879 B2 19901122; JP S6176593 A 19860419; US 4584117 A 19860422

DOCDB simple family (application)

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